

**Listing of Claims:****Claims 1-10 (previously cancelled).**

**11. (currently amended)** Method for of determining the position of a rotationally drivable tool used in machining so that the position may be used in continued machining, having the following steps:

- providing a measuring beam (18).
- rotating a rotationally drivable tool (14),
- choosing a movement direction,
- moving the tool (14) in the chosen direction, away from the measuring beam (18), to a measuring position in which the tool (14) is separated from the measuring beam (18),
- detecting the measuring position, and
- determining the position of the tool (14) from the measuring position, wherein
- the tool (14) is positioned in the beam path of the measuring beam (18) before it is moved away from the measuring beam (18), and
- the measuring position is detected for a position of the tool (14) in which the measuring beam (18) is not interrupted during at least one revolution of the tool (14).

**Claim 12. (previously added)** Method according to claim 11, in which the tool (14) is positioned in the beam path of the measuring beam (18) in such a manner that the measuring beam (18) is interrupted.

**Claim 13 (previously added)** Method according to claim 11, in which the tool (14) is positioned in the beam path of the measuring beam (18) in such a manner that the measuring beam (18) is periodically interrupted by the rotating tool (14).

**Claim 14 (previously added)** Method according to claim 11, in which the tool (14) is rotated at a predetermined rotational speed.

**Claim 15 (previously added)** Method according to claim 11, in which the tool (14) is moved at a predetermined velocity.

**Claim 16 (currently amended)** Method ~~for~~ of determining the position of a rotationally drivable tool used in machining so that the position may be used in continued machining, having the following steps:

- providing a measuring beam (18),
  - rotating a rotationally drivable tool (14),
  - choosing a movement direction,
  - moving the tool (14) in the chosen direction, away from the measuring beam (18), to a measuring position in which the tool (14) is separated from the measuring beam (18),
  - detecting the measuring position, and
  - determining the position of the tool (14) from the measuring position, wherein
  - the tool (14) is positioned in the beam path of the measuring beam (18) before it is moved away from the measuring beam (18), and
  - the measuring position is detected for a position of the tool (14) in which the measuring beam (18) is not interrupted during at least one revolution of the tool (14), and
- the tool position is determined in dependence on the rotational speed and the movement velocity of the tool (14).

**Claim 17 (previously added)** Method according to claim 11, in which the moving of the tool (14) away from the measuring beam (18) is ended when the measuring position is reached.

**Claims 18-19 (previously cancelled).**

**Claim 20. (currently amended) Device Method according to claim 11**  
comprising the further step of providing an optical measuring device (10, 12) with having  
a transmitter (10) for emitting a measuring beam (18) and a receiver (12) for selectively  
receiving the measuring beam (18).